

GSV Series Valves

Industry-Leading Solenoid Valve

Applications

Equipped with a collection of upgrades that take durability and performance to an unrivaled level, Rain Bird® GSV Series Valves can stand up to the challenges of any course. Advanced features make these valves especially valuable in lightning-prone regions, areas utilizing reclaimed water, and markets with high or fluctuating water pressure.

Plastic and brass models with NPT and BSP thread options allow these valves to be used worldwide.



Features

Unmatched Surge Resistance

- The pre-installed Rain Bird GBS25 Solenoid is designed to withstand up to 25kV of surge

Adjustable Pressure Regulation

- Pre-installed PRS-DIAL regulates and maintains constant outlet pressure between 15 and 100 psi (1.04 to 6.90 bar) within ± 3 psi (± 0.21 bar)
- Improved pressure spike reduction capabilities minimize water hammer
- Waterproof dial cartridge eliminates fogging and binding
- Improved distribution uniformity for block applications
- Ergonomic design with snap-tight cover on dial cartridge prevents vandalism

Engineered for Reclaimed Water

- Chlorine-resistant diaphragm delivers increased protection against harsh chemicals
- Optional purple flow control handle and cover allow for easy indication of non-potable water use

Uncompromising Durability

- Plastic models feature a glass-filled polypropylene body that delivers heavy-duty performance up to 200 psi (13.80 bar) pressure
- GSV211 model includes a red brass body and bonnet for longer life and more rugged performance up to 200 psi (13.80 bar) pressure
- Scrubber mechanism encapsulates stainless steel screen to dislodge grit and plant material
- External bleed protects solenoid ports from debris when system is flushed

Electrical Specifications

- **Power:** 24 VAC 50/60 Hz (cycles/second) GBS25 Solenoid
- **Inrush Current:** 0.41 A (9.84 VA)
- **Holding Current:** 0.20 A (4.80 VA) at 60 Hz, 0.23 A (5.40 VA) at 50 Hz

HOW TO SPECIFY

GSV	XXX
MODEL	SIZE
GSV	100 = 1" NPT
	101 = 1" BSP
	150 = 1 1/2" NPT
	151 = 1 1/2" BSP
	200 = 2" NPT
	201 = 2" BSP
	211 = 2" BSP (Brass)

Models

- **GSV100:** Plastic 1", National Pipe Thread
- **GSV101:** Plastic 1", British Standard Pipe
- **GSV150:** Plastic 1.5", National Pipe Thread
- **GSV151:** Plastic 1.5", British Standard Pipe
- **GSV200:** Plastic 2", National Pipe Thread
- **GSV201:** Plastic 2", British Standard Pipe
- **GSV211:** Brass 2", British Standard Pipe

Dimensions

MODEL	SIZE	HEIGHT	LENGTH	WIDTH
GSV100 / GSV101	1"	8.3" (21.1 cm)	5.6" (14.2 cm)	5.2" (13.2 cm)
GSV150 / GSV151	1.5"	9.5" (24.1 cm)	6.1" (15.5 cm)	6.2" (15.8 cm)
GSV200 / GSV201	2"	9.9" (25.2 cm)	6.1" (15.5 cm)	6.2" (15.8 cm)
GSV211 (Brass)	2"	9.4" (23.9 cm)	6.9" (17.5 cm)	5.9" (14.9 cm)



Operating Range

- **Flow:** 5 to 200 gpm* (19.20 to 757 l/m); (1.10 to 45.50 m³/h)
- **Pressure:** Up to 100 psi (6.90 bar)*
- **Temperature:** 150°F (66°C) maximum

*Numbers reflect performance with integrated PRS-DIAL.

U.S. Data — Pressure Loss (psi)

Flow gpm	GSV100 GSV101 1"	GSV150 GSV151 1 1/2"	GSV200 GSV201 2"
5	2.9	—	—
10	2.9	—	—
20	2.6	3.5	—
30	5.8	3.1	—
40	10.2	2.3	—
50	16.0	2.1	—
75	—	4.3	3.3
100	—	7.5	4.7
125	—	11.9	8.6
150	—	17.0	12.6
175	—	—	14.8
200	—	—	18.9

Flow gpm	GSV211 2"
5	—
10	—
15	—
20	0.5
30	0.6
40	0.8
50	1.1
60	1.8
80	2.4
100	3.8
120	5.9
140	7.8
160	10.0
180	12.5
200	15.8

Rain Bird recommends flow rates in the supply line not to exceed 7 1/2 ft/sec (2.29 m/s) to reduce the effects of water hammer.

Metric Data — Pressure Loss (bar)

Flow		GSV100 GSV101 1"	GSV150 GSV151 1.5"	GSV200 GSV201 2"
l/m	m ³ /h			
20	1.2	0.20	—	—
50	3	0.19	—	—
100	6	0.32	0.22	—
150	9	0.69	0.16	—
200	12	—	0.16	—
250	15	—	0.24	—
300	18	—	0.33	0.25
350	21	—	0.45	0.30
400	24	—	0.59	0.38
450	27	—	0.75	0.53
500	30	—	0.91	0.67
550	33	—	1.10	0.82
600	36	—	—	0.92
650	39	—	—	1.00
700	42	—	—	1.13
757	45	—	—	1.30

Flow		GSV211 2"
l/m	m ³ /h	
19	1	—
50	3	—
100	6	0.04
150	9	0.05
200	12	0.09
250	15	0.14
300	18	0.16
350	21	0.23
400	24	0.30
450	27	0.40
500	30	0.49
550	33	0.58
600	36	0.68
650	39	0.79
700	42	0.92
757	45	1.09

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